



Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

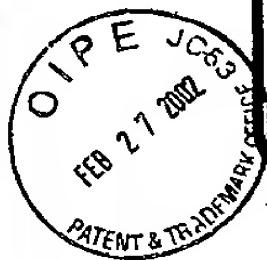
Complete if Known

Application Number	09/1683161
Filing Date	11-27-01
Applicants	ALLEN ROCHE, ET AL
Group Art Unit	1725
Examiner Name	F. Lin
Attorney Docket Number	201-0989

RECEIVED
SEP 4 2002
JC
JULY 2000

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
f. Rd.		K-H BUSSE; Arc Spraying Of Corded Wires; Thermal Spraying; June 1989; 19-28
		STEEPER et al.; A Taguchi Experimental Design Study Of Twin-Wire Electric Arc Sprayed Aluminum Coatings; Proceedings of the International Thermal Spray Conference & Exposition; May 28-June 5 1992; 427-432; Orlando, FL.
		AKIRA OHMORI; Thermal Spraying Current Status And Future Trends; Proceedings of the 14 th International Thermal Spray Conference; May 22-26 1995; 1197-1202; Kobe, Japan
		CRANE et al.; Relationships Between Process Variables, Structure And Mechanical Properties of Arc Sprayed Steel Coatings; Surface Engineering Conference; 1986; 103-118
		NEWBERY et al.; The Electric Arc Spray Manufacture of Rapid Production Tooling: A Case Study; Proceedings of the 15 th International Thermal Spray Conference; May 25-29 1998; 1223-1228; Nice, France
		ZURECKI et al.; Electric Arc Deposition of Carbon Steel Coatings with Improved Mechanical Properties; Journal of Thermal Spray Technology; December 1997; Volume 6(4); 417-421;
		HARRIS et al.; Influence of Heat Transfer on the Structure and Properties of Arc Sprayed Low Alloy Steels; Surface Engineering conference; 1985; 78-94
		FUSSELL et al.; A Sprayed Steel Tool for Permanent Mold Casting of Aluminum; SAE Technical Paper Series; April 22-26 1991; 1-7; Dayton, OH.
		VOLENIK et al.; Properties of Alloy Steel Coatings Oxidized During Plasma Spraying; Materials Science and Engineering; 1997; A234-236; 493-496
		WEISS et al.; Arc-Sprayed Steel-Faced Tooling; Journal of Thermal Spray Technology; September 1994; Volume 3(3); 275-281
		SMITH et al.; An Investigation of the Effects of Droplet Impact Angle in Thermal Spray Deposition; Proceedings of the 7 th National Thermal Spray Conference; June 20-24 1994; 603-608; Boston, MA.
		KOWALSKY et al.; Diagnostic Behavior of the Wire-Arc-Plasma Spray Process; Proceedings of the International Thermal Spray Conference & Exposition; May 28-June 5 1992; 337-342; Orlando, FL.
		MURAKAMI et al.; Effect of Temperature Rise of Sprayed Deposits of an Fe-2.19wt.%C-0.68wt.%Si Alloy During Thermal Spraying on the Structures and the Mechanical Properties; Materials Science and Engineering; 1994; A174; 85-94
		PRINZ; Shaping By Deposition; Carnegie Mellon University
		STEFFENS; Metallurgical Changes In The Arc Spraying Of Steel; British Welding Journal; October 1966; 597-605
✓		BREDENDICK-KAMPER et al.; AES Investigation Of Thermally Sprayed Al ₂ O ₃ Coatings On Steel; Fresenius Journal Anal Chem; 1991; 341; 346-348



Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

RECEIVED
SEP 4 2002
T-29-01 T-100

Application Number	09/1683,167
Filing Date	11-29-01
Applicants	Roche et al.
Group Art Unit	175
Examiner Name	T. Lin
Attorney Docket Number	201-0989

<i>Elex</i>	CRANE et al.; Relationships Between Process Variables, Structure and Mechanical Properties Of Arc Sprayed Steel Coatings; First International Conference On Surface Engineering; June 25-28 1985; 103-118; Brighton, UK
	KIM et al.; Heat Flow In Multi-Pass Arc Spraying Process; Surface And Coatings Technology; 1989; 398-408;
	CRONJAGER et al.; Investigationd About The Machinability Of Arc-Sprayed Steel Coatings; Proceedings Of The Eleventh International Thermal Spraying Conference; September 8-12 1986863-872; Montreal, Canada
	STEFFANS et al.; The Sonarc Process: Combining The Advantages Of Arc And HVOF Spraying; Journal Of Thermal Spray Technology; December 1994; 398-403; Volume 3(4)
	WEISS et al.; Rapid Prototyping Of Tools; Carnegie Mellon University; October 1989; 1-23
	BHARGAVA et al.; Automated Ejectability Analysis And Parting Surface Generation For Mold Tool Design; Carnegie Mellon University; May 1991; 1-29
	FUSSELL et al.; Controlled Microstructure Of Arc Sprayed Metal Shells; Carnegie Mellon University; May 1991; 1-26
	CLYENS; Rapid Tooling Manufactured By Spray Tool Steel Directly Onto Stereolithography Models;
	HE et al.; Net Shape Simulation And Control; Proceedings Of The 7 th National Thremal Spray Conference; June 20-24 1994; 415-419; Boston, MA
	GILL et al.; Monitoring Of Residual Stress Generation During Thermal Spraying By Curvature Measurements; Proceedings Of The 7 th National Thermal Spray Conference; June 20-24 1994; 581-592; Boston, MA
	RATEGAR et al.; On The Optimal Motion Planning For Solid Freeform Fabrication By Thermal SprayingProceedings Of The 7 th National Thermal Spray Conference; June 20-24 1994; 463-483; Boston, MA
	HARRIS et al.; Influence Of Wire Composition And Other Process Variables On The Internal Stress Of Arc Sprayed Steel Coatings; DVS; 80; 245-249
	GREVING et al.; Effects Of Coating Thickness And Residual Stresses On Bond Strength Of C633-79 Thermal Spray Coating Test Specimens; Proceedings of the 7 th National Thermal Spray Conference; June 20-24 1994; 639-644; Boston, MA
	KNIGHT et al.; Residual Stresses In Thermally Sprayed Coatings; Proceedings of the 1993 National Thermal Spray Conference; June 7-11 1993; 607612; Anaheim, CA
	NEISER et al.; Use Of A Computer Model To Assist In VPS Parameter Development; Proceedings of the 1993 National Thermal Spray Conference; June 7-11 1993; 61-66; Anaheim, CA
<i>✓</i>	EINERSON et al.; Intelligent Control Strategies For The Plasma Spray Process; Proceedings of the 1993 National Thermal Spray Conference; June 7-11 1993; 205-211; Anaheim, CA

EXAMINER

J. H. Oki

DATE CONSIDERED

12/16/03

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

*Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Use several sheets if necessary)</small>		Atty. Docket No. 201-0989DP	Serial No. 09/683,161
		First Named Inventor: Allen ROCHE	
		Filing Date 11/27/2001	Group 1725 Unassigned
Sheet <u>1</u> of 2			

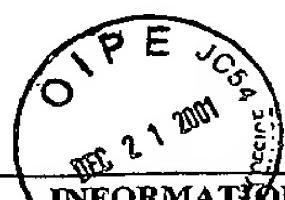
U.S. PATENT DOCUMENTS

EXAMINER	<i>J. Sh. Aki</i>	DATE CONSIDERED	<i>12/16/03</i>
-----------------	-------------------	------------------------	-----------------

*Examiner: Initial if referenced considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Examiner: Initial if referenced considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PATENT AND TRADEMARK OFFICE—U.S. DEPARTMENT OF COMMERCE



PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Atty. Docket No. 201-0989DP	Serial No. 09/683,161
Sheet <u>1</u> of <u>2</u>		First Named Inventor: Allen ROCHE	
		Filing Date 11/27/2001	Group <u>125</u> Unassigned

OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS

Examiner Initial	Cite No.	Include name of the author, title of the article, title of the item, date, page(s), volume-issue number(s), publisher, city and/or country where published
R.Hd	C1	Sprayform Tools and Dies Limited (STD), Video Transcript, publication date at least as early as 01 Sept. 2000.
	C2	RADIP TOOLING - Changing the Face of Manufacturing, Compact Disc Digital Data, dated 12 October 2000, trt: 10:50.
	C3	MERLE L. THORPE; and JOSEPH W. MINGE, SPRAY METAL COMPOSITE TOOLING, 26 th Annual National SAMPE (Society For The Advancement Of Material And Process Engineering) Symposium And Exhibition, April 28-30, 1981, Pages 374-382, Figures 1-13 and Table I and II.
✓	C4	Inventor Allen ROCHE, Co-pending United States Patent Application No. 09/683,159 entitled "Method And Arrangement For Affecting Time, Temperature And Transformation Dependent Stress Relief In Sprayform Techniques" and filed 11/27/2001.

EXAMINER	DATE CONSIDERED
<i>J. H. d.m.</i>	<i>12/16/03</i>
*Examiner: Initial if referenced considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Patent and Trademark Office—U.S. DEPARTMENT OF COMMERCE